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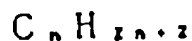
PUBLICATION NUMBER : 01083510
PUBLICATION DATE : 29-03-89

APPLICATION DATE : 28-09-87
APPLICATION NUMBER : 62243450



APPLICANT : IBIDEN CO LTD;

INVENTOR : AMINO TOSHIKAZU;



INT.CL. : C01B 31/36

TITLE : PRODUCTION OF BETA TYPE
SILICON CARBIDE POWDER

ABSTRACT : PURPOSE: To obtain high-purity β type SiC fine powder inexpensively and efficiently, by thermally decomposing an organosilicon compound with a specific gas and heat-treating the obtained fine powder.

CONSTITUTION: An organosilicon compound shown by formula I (R is CH_3 or C_2H_5 ; X is Cl ; n is 1~2) and a carrier gas containing ≥ 95 wt.% hydrocarbon gas shown by formula II such as methane are introduced into a reaction system and chemically reacted in a gas phase at $800 \sim 1,200^\circ C$ to give fine powder. Then the powder is heat-treated at $1,200 \sim 2,200^\circ C$ to produce β type SiC fine powder having ≥ 95 wt.% purity and $1 \sim 6 m^2/g$ specific surface area.

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